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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/822,714	04/13/2004	Teruhisa Saito	H&A-129	3050
75	590 11/03/2006		EXAM	INER
MATTINGLY, STANGER & MALUR, P.C.			BHAT, ADITYA S	
Suite 370 1800 Diagonal Road		ART UNIT	PAPER NUMBER	
	Alexandria, VA 22301		2863	`
		DATE MAILED: 11/03/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/822,714	SAITO, TERUHISA				
Office Action Summary	Examiner	Art Unit				
	Aditya S. Bhat	2863				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. sely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
_	Responsive to communication(s) filed on <u>06 July 2006</u> .					
,-	·					
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 17-22 is/are pending in the application.						
4a) Of the above claim(s) <u>11-16</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
• — • • • — • •	6)⊠ Claim(s) <u>17,18 and 20</u> is/are rejected.					
7) Claim(s) 19,21 and 22 is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine						
10)⊠ The drawing(s) filed on <u>13 April 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No.						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(c)						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D 5) Notice of Informal I	ate				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/14/05.	6) Other:	- Great Application				

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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of claims 17-22 in the reply filed on 7/6/2006 is acknowledged.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 17-18 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by. Yamakawa et al. (USPN 6,134,960).

With regards to claim 17, Yamakawa et al. (USPN 6,134,960) teaches an electronic circuit board comprising:

a circuit conductor layer on a substrate having first and second conductors; (Col. 8, lines 32-53)

an operational amplifier connected to the circuit conductor layer via the first and second conductors, the operational amplifier comprising a monolithic IC; (figure 5) and

a third conductor that covers, via an insulating layer, a part of the first conductor in the circuit conductor layer that is connected to a positive input of the operational amplifier, and a part of the second conductor of the circuit conductor layer that is

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connected to a negative input of the operational amplifier, wherein the third conductor is not electrically connected with any part (Col. 9, lines14-30)(figure 1B)

With regards to claim 18, Yamakawa et al. (USPN 6,134,960) teaches the third conductor is a metal plate mounted on the insulating layer. (col. 8, lines 33-35)

With regards to claim 20, Yamakawa et al. (USPN 6,134,960) teaches the electronic circuit board is part of a thermal flowmeter (col. 4, lines 29-30)

Allowable Subject Matter

The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 19, 21 and 22:

Claims 19, 21 and 22 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The primary reason for the allowance of claim 19 is the inclusion of a first conductor of the circuit conductor layer that is connected to the positive input of the operational amplifier and the second conductor of the circuit conductor layer that is connected to the negative input of the operational amplifier are each comprised of a central conductor in a separate shield line, wherein the third conductor is comprised of a covering conductor of the respective parts of each of the shield lines, and wherein the covering conductor of the individual shield lines is not connected to any of the other conductors. It is this feature found in the claim, as it is claimed in the combination that has not been found, taught or suggested by the prior art of record, which makes this claim allowable over the prior art.

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The primary reason for the allowance of claim 21 is the inclusion of the electronic circuit board is part of a thermal flowmeter, and wherein the third conductor and the first and second conductors are capacitance coupled with each other via the third conductor to terminate the alternating current element. It is this feature found in the claim, as it is claimed in the combination that has not been found, taught or suggested by the prior art of record, which makes this claim allowable over the prior art.

The primary reason for the allowance of claim 22 is the inclusion of the electronic circuit board is part of a thermal flowmeter, and wherein the first conductor of the circuit conductor layer that is connected to the positive input of the operational amplifier and the second conductor of the circuit conductor layer that is connected to the negative input of the operational amplifier are each comprised of a central conductor of a separate shield line, and wherein the first and second conductors are capacitance coupled with each other via the third conductor to terminate the alternating current element. It is this feature found in the claim, as it is claimed in the combination that has not been found, taught or suggested by the prior art of record, which makes this claim allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Itsuji et al (USPN 5,824,895) teaches a air flow meter of a heating resistor type.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aditya S. Bhat whose telephone number is 571-272-2270. The examiner can normally be reached on M-F 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on 571-272-2269. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Aditya Bhat October 16, 2006

Super/isory Patent Examiner
Te/thnology Center 2800